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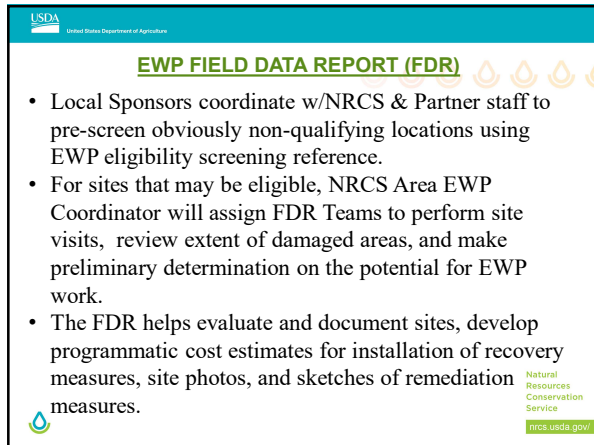
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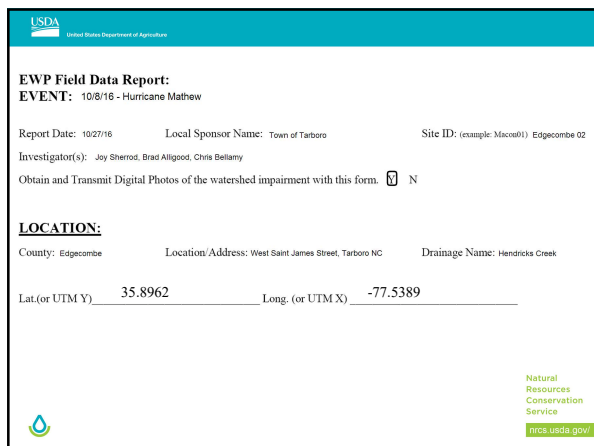
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### BACKGROUND:

Describe the damage at this location as a consequence of the natural disaster event:

What happened and what damage occurred and what's threatened?

Describe the Watershed Impairment:

situation that exists when the ability of a watershed to carry out its natural functions is reduced (or degraded) to the point where an imminent threat to health, life, or property is created.



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How does the watershed impairment *currently* impair the watershed's hydrologic or ecological functions?

Negative impacts to flows and/or Soil/Water/Plants/Animals


How does the watershed impairment *currently* create an imminent or immediate threat<sup>1</sup> to life, property<sup>2</sup>, or health?

Imminent threat means a substantial natural occurrence could cause significant damage to property or threaten human life in the near future.

Immediate threat could occur within days.

Threat can be at the site, upstream or downstream.

Property is an artificial structure affixed to the land such as a house, building, road, and utility.



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Damage Description Examples:

A stream adjacent to several public roads and a waste water treatment plant, was severely eroded leaving steep non-vegetated, unstable banks and excess sediment in stream.

High flows dislodged large trees and debris blocking stream flow threatening to washout road culvert

Spillway pipe collapsed causing flooding on local road and on neighboring properties

Wave action removed vegetation and soils, and created vertical cut banks that threaten several homes



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6


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### Watershed Impairment Examples:


What does a watershed do?

SWAPAH resource concerns

Debris blocking/redirecting stream flows, creating new bank erosion, increased sediment loads and turbidity

Flow being blocked/reduced in drainage way

Increased erosion, increased sediment load to waterway, habitat destruction due to removal of waterfront vegetation, turbidity affecting habitat, Hazardous debris impacting habitat



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7


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### Watershed Impairment Viewed through Resource Concerns

SOIL: EROSION

SOIL: SOIL QUALITY DEGRADATION

WATER: EXCESS / INSUFFICIENT WATER

WATER: WATER QUALITY DEGRADATION

AIR: AIR QUALITY IMPACTS


PLANTS: DEGRADED PLANT CONDITION

ANIMALS: INADEQUATE HABITAT FOR FISH AND WILDLIFE

ANIMALS: LIVESTOCK PRODUCTION LIMITATION

ENERGY: INEFFICIENT ENERGY USE

HUMAN: ECONOMIC AND SOCIAL CONSIDERATIONS



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### Likely Impairment Viewed through Resource Concerns:


SOIL: EROSION

WATER: EXCESS / INSUFFICIENT WATER

WATER: WATER QUALITY DEGRADATION

ANIMALS: INADEQUATE HABITAT FOR FISH AND WILDLIFE

HUMAN: ECONOMIC AND SOCIAL CONSIDERATIONS



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9

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What is the evidence that there has not been an ongoing watershed problem at this site, and that the impairment suddenly arises as a result of the natural disaster event?

Cite indicators that damages are “fresh” or have recently occurred

Summarize what will be protected from damage by the proposed work:

Private Property:

Business Property:

Public Property, including public buildings, infrastructure and utilities:

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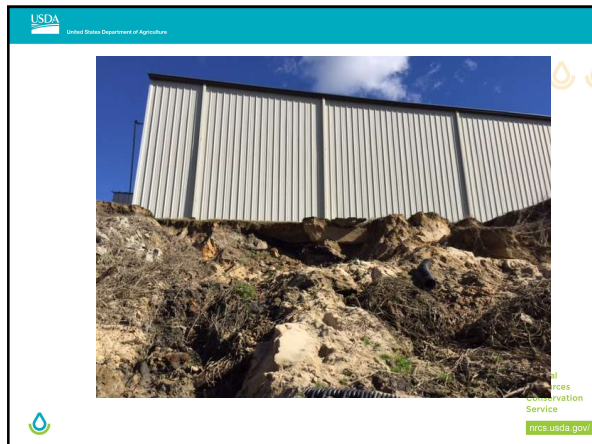
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**BACKGROUND:**

Describe the damage at this location as a consequence of the natural disaster event:  
Flood waters exceeded channel capacity, causing excessive bank erosion. Upper bank slope is within 6 feet of a building used as a warehouse.

Describe the Watershed Impairment:  
Unstable eroded channel bank (approx. 120 ft. in length, 20 ft. in height) which will continue to erode and deposit sediment within the channel.

How does the watershed impairment *currently* impair the watershed's hydrologic or ecological functions?  
Channel bank is unstable and eroding, depositing large amounts of sediment in the stream.

14

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How does the watershed impairment *currently* create an imminent or immediate threat<sup>1</sup> to life, property<sup>2</sup>, or health?  
The building is within 6 feet of the eroded area which poses a threat to the building foundation.

What is the evidence that there has not been an ongoing watershed problem at this site, and that the impairment suddenly arises as a result of the natural disaster event?  
Adjacent channel bank sections have vegetation in place.

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Summarize what will be protected from damage by the proposed work:


Private Property:

Business Property: Warehouse used for cotton storage.

Public Property, including public buildings, infrastructure and utilities:

<sup>1</sup>The potential for a threat to life, health, or property may be at the site, upstream of the site, or downstream of the site (e.g., sedimentation deposit downstream, flooding upstream, etc.).

<sup>2</sup>Property is considered any artificial structure permanently affixed to the land such as, but not limited to, houses, buildings, roads, utilities, structures, dams, etc. Standing timber, orchards, growing crops, other agronomic crops, etc. are not considered property under the EWP Program


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16

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**EWP Field Data Report:**

**EVENT:**


**RANKING:**

What is likely to happen if the damage is left untreated?  
Streambank will continue to erode and undermine the building foundation.

Has any loss of life been caused by this watershed impairment? There has been no loss of life.

Explain if and how this watershed impairment:

- creates a potential for loss of life.
- has interfered with access to a medical facility.
- impairment has interfered with normal operation of public infrastructure or public services.
- raises a public safety risk? There could be future damage to building foundation creating a safety concern.


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Are any special environmental circumstances likely to occur (or known to occur) at, or close to this location, such as:

Special Environmental Concern (SEC)	P	NP	MPHE	Comments
•Clean Air Act	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
•Clean Water Act / Waters of the U.S.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
•Coastal Zone Management	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
•Coral Reefs	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
•Cultural Resources / Historic Properties	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
•Endangered and Threatened Species	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
•Environmental Justice	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
•Essential Fish Habitat	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
•Floodplain Management	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
•Invasive Species	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
•Migratory Birds/Bald and Golden Eagle Protection Act	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
•Natural Areas	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
•Prime and Unique Farmlands	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
•Riparian Area	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
•Scenic Beauty	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
•Wetlands	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
•Wild and Scenic Rivers	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
N/C Only- N/C Only- National Food Security Act (HEL/WC)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
N/C Only- Hazardous Materials	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Present (P), Not Present (NP), May Potentially Have an Effect (MPHE)


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18

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### SCREENING for PRELIMINARY EWP ELIGIBILITY

<input checked="" type="checkbox"/> TRUE	<input type="checkbox"/> FALSE	There has been an unusual event that has caused watershed impairment (blockage or channel migration) that is causing an immediate or imminent threat to life, public health, and property including houses, buildings, structures, roads, utilities.
<input checked="" type="checkbox"/> TRUE	<input type="checkbox"/> FALSE	The threat to life and property significantly exceeds that which existed prior to the impairment.
<input checked="" type="checkbox"/> TRUE	<input type="checkbox"/> FALSE	Recovery measures would be for runoff retardation or soil erosion prevention.
<input checked="" type="checkbox"/> TRUE	<input type="checkbox"/> FALSE	EWP funds have NOT been utilized twice within the past TEN years to repair damage (as opposed to removing storm debris) at the exact location.
<input checked="" type="checkbox"/> TRUE	<input type="checkbox"/> FALSE	The damages are NOT considered typical O&M activities.
<input checked="" type="checkbox"/> TRUE	<input type="checkbox"/> FALSE	The damaged area is NOT part on a pre-existing or ongoing problem.
<input checked="" type="checkbox"/> TRUE	<input type="checkbox"/> FALSE	EWP Funds will NOT be used to repair, rebuild or maintain private or public transportation facilities, utilities or similar facilities.
<input checked="" type="checkbox"/> TRUE	<input type="checkbox"/> FALSE	The site is NOT on Federal Land.

☒ May Be Eligible

☐ Is Not Eligible

NOTE: If any of the responses are FALSE, then the initial determination is that the site is NOT eligible. Sites that may be eligible will undergo further review by NRCS before a final eligibility decision is made.

(Circle One)

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19

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### SKETCH of DAMAGE:

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### Hendricks Creek - EWP Site

West Saint James St, Tallahassee

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21

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### Engineering Cost Estimate for Repair Measures

Description of **Proposed** Recovery Measure (including mitigation measures)

Reconstruct channel bank to a stable uniform grade. Armor channel bench with rock.

Practices/Components	Estimated Qty.	Units
Earthfill and grading	~ 120 linear feet of channel bank	
Placement of geotextile and rock riprap on bench	~100 tons of rock	
Placement of erosion control blanket on upper bank slope		



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22




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### ENGINEERING COST ESTIMATES FOR REPAIR MEASURES:

Area Coordinator for EWP will provide cost estimate list for expected mitigation measures

This will be somewhat based on current FY practice assistance level

Level of detail not as rigorous as the PDM-20 form



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23


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### Common EWP Mitigation:

**Debris Removal:**



- Clearing and Snagging (CPS 326)
- Obstruction Removal (CPS 500)
- Woody Residue Treatment (384)

**Sediment Removal:**

- Channel Bed Stabilization (CPS 584)
- Open Channel (582)

**Streambank Stabilization & Restoration:**

- Streambank and Shoreline Protection (CPS 580)



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24



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Common EWP Mitigation:

- Gully & Erosion Repair:
  - Grade Stabilization Structure (CPS 410)
  - Lined Waterway or Outlet (468)
  - Precision Land Forming (462)
  - Land Reclamation, Landslide Treatment (CPS 453)
  - Land Smoothing (466)
  - Structure for Water Control (587)
  - Spoil Spreading (572)
  - Mulching (484)
  - Critical Area Planting (342)

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Common EWP Mitigation:

- Disposal of Livestock Mortality:
  - Emergency Animal Mortality Management (CPS 368)
- Dike/Levee Repair:
  - Dike (CPS 356)

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Raleigh State Office  
NC USDA-NRCS  
Email: [jim.kjelgaard@usda.gov](mailto:jim.kjelgaard@usda.gov)  
Office Tel: 919-873-2130

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 Slide 28

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